

Chemical Abstract for JP 2003277555

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2003:767908 CAPLUS
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 TITLE: Resin compositions with excellent impact resistance and fluidity
 INVENTOR(S): Sakata, Minoru; Akiyama, Yoshikuni
 PATENT ASSIGNEE(S): Asahi Kasei Corporation, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
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 C08L053-02; C08L071-12
 CLASSIFICATION: 37-6 (Plastics Manufacture and Processing)
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 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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ABSTRACT:

The title compns. comprise polypropylene 45-95, polyphenylene ether 55-5, hydrogenated block copolymer 1-30, compd. contg. functional group (e.g., unsatd. carboxylic acid, acid anhydride, epoxy, amino, OH) 0.1-5, and inorg. filler 3-100%. Thus, feeding a mixt. of polypropylene 10, polyphenylene ether 40, hydrogenated butadiene-styrene block copolymer 10, and Crystal MAN (maleic anhydride; I) 0.5 part through an up-stream inlet and 50 parts polypropylene and 50 parts glass fibers through a down-stream inlet into an extruder, melt kneading, extruding, and pelletizing gave pellets with melt flow rate 21 g/10 min and notched Izod impact strength 170 J/m, vs. 8 and 70, resp., without I.

SUPPL. TERM: impact resistance polypropylene polyphenylene ether blend compatibilizer; inorg filled polypropylene polyoxyphenylene blend maleic anhydride impact modifier

INDEX TERM: Impact-resistant materials
 (polyoxyphenylene-polypropylene blends with excellent impact resistance and fluidity)

INDEX TERM: Polyoxyphenylenes
 ROLE: POF (Polymer in formulation); PRP (Properties); USES (Uses)

(polyoxyphenylene-polypropylene blends with excellent impact resistance and fluidity)

INDEX TERM: Polymer blends
 ROLE: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(polyoxyphenylene-polypropylene blends with excellent impact resistance and fluidity)

INDEX TERM: 106107-54-4D, Butadiene-styrene block copolymer, hydrogenated 164458-37-1, Dylark 232
 ROLE: MOA (Modifier or additive use); USES (Uses)
 (compatibilizers/impact modifiers; polyoxyphenylene-polypropylene blends with excellent impact resistance and fluidity)

INDEX TERM: 105729-79-1D, Isoprene-styrene block copolymer, hydrogenated
ROLE: POF (Polymer in formulation); PRP (Properties); USES
(Uses)
(compatibilizers/impact modifiers; polyoxyphenylene-
polypropylene blends with excellent impact resistance and
fluidity)

INDEX TERM: 108-31-6, Crystal MAN, uses
ROLE: MOA (Modifier or additive use); USES (Uses)
(polyoxyphenylene-polypropylene blends with excellent
impact resistance and fluidity)

INDEX TERM: 9003-07-0, Polypropylene 24938-67-8, 2,6-Xylenol polymer,
sru 25134-01-4, 2,6-Xylenol polymer
ROLE: POF (Polymer in formulation); PRP (Properties); USES
(Uses)
(polyoxyphenylene-polypropylene blends with excellent
impact resistance and fluidity)